10/551802 JC20 Rec'd PCT/PTO 3 0 SEP 2005

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Satoshi SUGAHARA et al.

Application No.: New U.S. National Stage of

PCT/JP04/004512

Filed: September 30, 2005 Docket No.: 125471

For: TUNNEL TRANSISTOR HAVING SPIN-DEPENDENT TRANSFER

CHARACTERISTICS AND NON-VOLATILE MEMORY USING THE SAME

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Pursuant to 37 CFR §1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

- 1. This Information Disclosure Statement is being filed (a) within three months of the U.S. filing date of this non-CPA application, OR (b) before the mailing date of a first Office Action on the merits in the present application. No certification or fee is required.
- 2. Relevance of references 9-11 is discussed in the present specification.
- 3. The references 1-8 were cited in the International Search Report. An English language version of the International Search Report is attached for the Examiner's information.
- 4. English language Abstracts of the non-English language references 1-3 are attached hereto.
- 5. A computer-generated English language translation of Japanese Patent Publications 1-3 has been obtained from the website of the Japanese Patent Office ([http://www.jpo.go.jp]), and is attached, but has not been reviewed for accuracy.

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New U.S. National Stage of PCT/JP04/004512

✓ An English translation of references 6 and 7 are attached.

Respectfully submitted,

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Date: September 30, 2005

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Please grant any extension necessary for entry; Charge any fee due to our Deposit Account No. 15-0461

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Sheet <u>1</u> of <u>1</u>

Form PTO-1449 (REV. 8-83)	•			ATTY DOCKET NO. 125471			APPLICATION NO. New U.S. National Stage of		
INFORMATION DISCLOSURE STATEMENT						1	U	551	802
(Use several sheets if necessary)				APPLICANTS Satoshi SUGAHARA et al.					
				FILING DATE September 30, 2005					
U.S. PATENT DOCUMENTS									
EXAMINER INITIAL		DOCUMENT NUMBER]	DATE	NAME			CLASS	SUB CLASS
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FOREIGN PATENT DOCUMENTS									
		DOCUMENT NUMBER	DATE		COUNTRY		CLASS	SUB CLASS	
	1)	JP A 11-238924 w/ abstract & trans	08/31/1999		JAPAN				
	2)	JP A 2001-250998 w/ abst. & trans	09/14/2001		JAPAN				
	3)	JP A 2003-78147 w/ abst. & trans	03/14/2003		JAPAN				
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)									
	4)	LeClair et al., "Large Magnetoresistance using Hybrid Spin Filter Devices," Applied Physics Letters, Vol. 80, No. 4, pp. 625-627, January 28, 2002							
	5)	Matsukura et al., "Control of Ferromagnetism in Filed-Effect Transistor of a Magnetic Semiconductor," Physica E, Vol. 12, pp. 351-355, 2002							
	6)	Sugawara et al., "Proposal of a Spin-Filter Transistor and its Application," 30a-ZH-1, No. 3, pp. 1566, March 27, 2003 with English translation							
	7)	Matsuno et al., "Reconfigurable Logic Devices Based on the Spin-Filter Transistor," 30a-ZH-2, No. 3, pp. 1566, March 27, 2003 with English translation							
	8)	Datta et al., "Electronic Analog of the Electro-Optic Modulator," Appl. Phys. Lett., Vol. 56, No. 7., pp. 665-667. February 12, 1990							
	9)	Inomata, "Present and Future of Magnetic RAM Technology," IEICE Trans. Electron., Vol. E84-C, No, 6, pp. 740-746, June 2001							
	10)	Ohno et al., "Electric-Field Control of Ferromagnetism," Nature, Vol. 408, pp. 944-946, December 21-28, 2000							
	11)	Chiba et al., "Electrical Manipulation of Magnetization Reversal in a Ferromagnetic Semiconductor," Science, Vol. 301, pp. 943-945, August 15, 2003							
EXAMINER		DATE CONSIDERED							
Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.									

Date: September 30, 2005